

July 19, 2004

Abstract

A process for producing multicoat paint systems comprising

5 (A) one first color and/or effect coat,
(B) one second color and/or effect coat, and
(C) one transparent coat,

by applying aqueous coating materials (A) and (B) and a coating material
10 (C) to

(i) unprimed substrates or
(ii) substrates coated with an uncured primer (G) or
(iii) substrates coated with a cured primer (G)

15 and jointly curing the wet films (A), (B), and (C) and also where appropriate the uncured primer (G), where the coating material (A) comprises

20 (a.1) a (co)polymer or graft copolymer preparable by (co)polymerizing a monomer (a.1.1) containing a (co)polymerizable, olefinically unsaturated group or at least two comonomers (a.1.1) in the presence of a polyurethane (a.1.2) selected from the group consisting of polyurethanes containing no copolymerizable, 25 olefinically unsaturated groups and polyurethanes containing lateral and/or copolymerizable, olefinically unsaturated groups, and optionally carrying out partial or complete neutralization,

(a.2) color and/or effect pigments,

30

July 19, 2004

(a.3) UV-absorbing pigments, and

(a.4) talc.